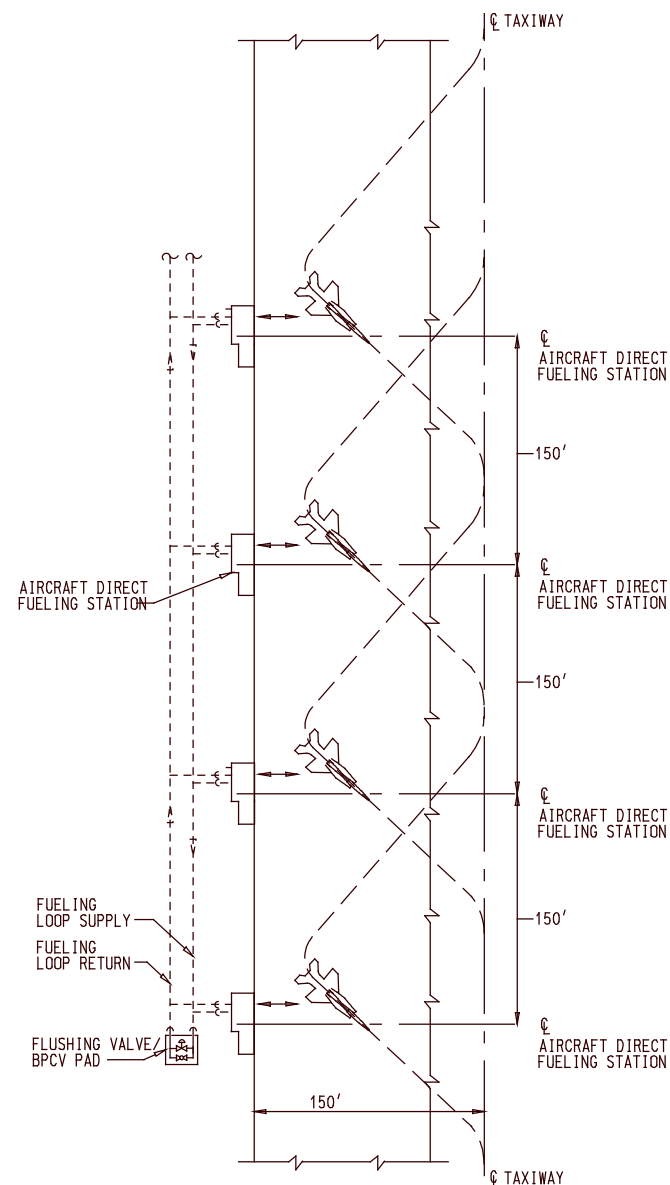


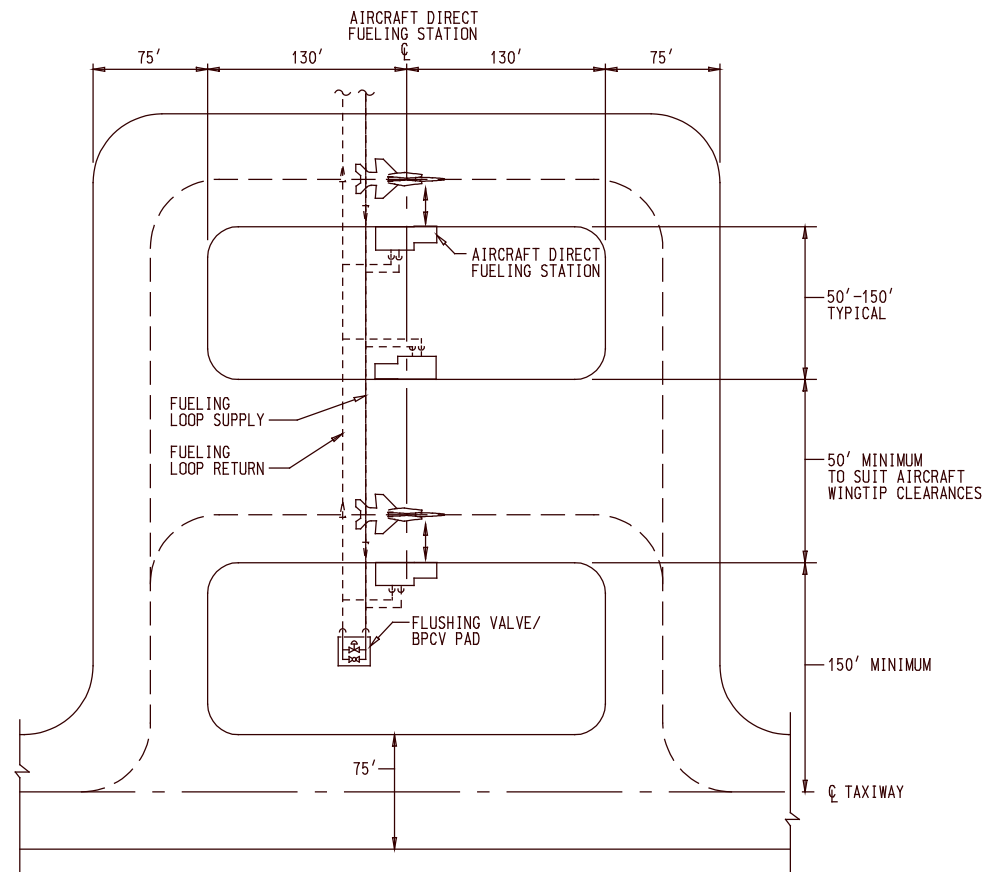
NOTE:  
LOCATE FUELING STATIONS ON THE FUELING ADAPTOR SIDE OF THE AIRCRAFT AS FOLLOWS.

<u>LEFT SIDE</u>	<u>RIGHT SIDE</u>
AV - 8	F - 14
F - 16	F - 18
A - 7	A - 6
F - 15	F - 4
V - 22	

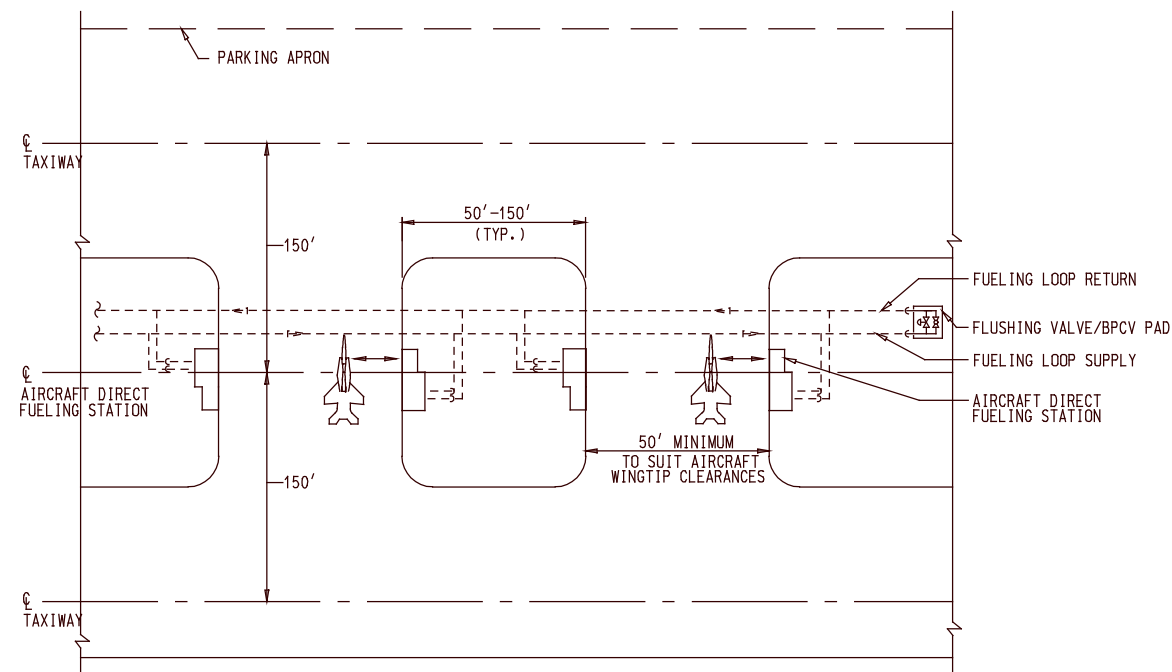
TYPICAL AIRCRAFT DIRECT FUELING STATION  
FOR CARRIER TYPE AIRCRAFT AND HELICOPTERS



TYPICAL EDGE OF APRON OR  
PARALLEL TO TAXIWAY ARRANGEMENT



TYPICAL FUELING LANE ARRANGEMENT  
TWO WAY TRAFFIC NOT PERMITTED



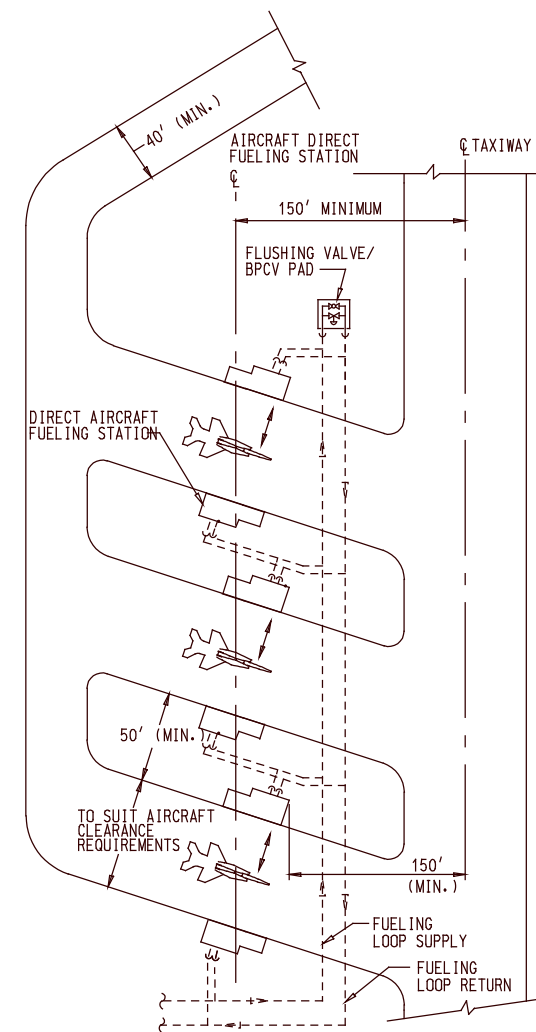
TYPICAL FUELING LANES BETWEEN TAXIWAY AND PARKING APRON

### LEGEND

- |        |  |
|--------|--|
| AAV    | AUTOMATIC AIR VENT                                   |
| F/S    | FILTER SEPARATOR                                     |
| L.P.D. | LOW POINT DRAIN                                      |
| S.C.   | SAMPLE CONNECTION                                    |
| (DP)   | DIFFERENTIAL PRESSURE GAGE                           |
| (DPS)  | DIFFERENTIAL PRESSURE SWITCH                         |
| (LI)   | LIQUID LEVEL INDICATOR                               |
| (PI)   | PRESSURE INDICATING TRANSMITTER                      |
| (PG)   | PRESSURE GAGE  |
| (S)    | STRAINER   |
| (FS)   | FLOW SWITCH  |
|        | CAP  |
|        | VALVE TERMINATING<br>WITH BLIND FLANGE               |
|        | CONNECTOR  |
|        | FLEXIBLE BALL JOINT                                  |
|        | BALL VALVE   |
|        | CHECK VALVE (SWING TYPE)                             |
|        | LIMIT SWITCH   |
|        | NON-SURGE CHECK VALVE<br>W/ RATE OF FLOW CONTROLLER  |
|        | CONTROL VALVE  |
|        | CONTROL VALVE WITH SOLENOID<br>OPERATED PILOT SYMBOL |
|        | HYDRANT CONTROL VALVE                                |
|        | FLEXIBLE HOSE  |
|        | SAMPLE CONNECTION                                    |
|        | ISOLATING FLANGE                                     |
|        | SITE FLOW INDICATOR                                  |
|        | ANGLE RELIEF VALVE                                   |
|        | LINE SIZE REDUCER                                    |
|        | PLUG VALVE   |
| ----   | INDICATES OPTIONAL                                   |
|        | WYE STRAINER   |
|        | 2-1/2" D-I NOZZLE ADAPTER                            |
|        | PRESSURE REFUELING NOZZLE                            |
| OV     | OVERFLOW VALVE                                       |
| BPV    | BYPASS VALVE   |

## NOTES

1. RELATIVE SPACING OF AIRCRAFT TO AIRCRAFT FOR DIRECT FUELING STATION SHALL BE DESIGNATED BY THE COMMAND FUEL FACILITIES ENGINEER.
2. ALL UNDERGROUND PIPING SHALL BE SHOWN ON THE CONTRACT DRAWINGS BOTH IN PLAN AND IN PROFILE.
3. CLEARANCE FROM AIRCRAFT DIRECT FUELING STATION TO INHABITED BUILDINGS TO BE MINIMUM OF 200 FEET. CLEARANCES OTHER THAN THOSE SHOWN SHALL CONFORM TO MIL-HDBK 1022.
4. ABOVEGROUND REFUELING HARDWARE SHOULD BE LOCATED SO THAT IT DOES NOT VIOLATE THE PRIMARY SURFACE OR THE 7:1 TRANSITION SURFACE OF A RUNWAY, THE 100 FEET CLEARANCE FOR A PARKING APRON OR THE 150 FEET CLEARANCE FOR ANY TAXIWAY NOT SPECIFICALLY DEDICATED AS A REFUELING LANE. THE REFUELING AREA SHOULD BE LOCATED SO THAT NO PART OF AN AIRCRAFT RECEIVING FUEL VIOLATES ANY OF THE ABOVE CLEARANCE AREAS.
5. PROVIDE ALL FUEL LINES WITH HIGH POINT VENTS AND LOW POINT DRAINS TO MAKE SYSTEM 100% DRAINABLE. EFFORT SHOULD BE MADE TO PROFILE FUEL LINES TO UTILIZE DIRECT FUELING STATION AND FLUSHING VALVE / BPCV PAD LOCATIONS FOR HIGH POINT VENTS AND LOW POINT DRAINS IN ORDER TO ELIMINATE NEED FOR PITS IN THE FLIGHT LINE AREAS.



SINGLE LANE-ONE WAY-EITHER DIRECTION.  
FUEL EITHER SIDE ARRANGEMENT

DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND	
ATLANTIC DIVISION		NORFOLK, VIRGINIA	
NAVAL STATION		STANDARD	
DEFINITIVE		AIRCRAFT DIRECT FUELING SYSTEM	
		SITE PLANS AND NOTES	
CODE 1-D. NO. 800		SIZE	
SCALE=NOTED			
EFD NO. -			
STA. PROJ. NO-			
SPEC. NO. -			
CONSTRN. CONTR. NO.			
=			
NAVFAC DRAWING NO.			
1404000			
SHEET		OF	
1		OF 4	